

CLAIMS:

1. A protein comprising an amino acid sequence represented by SEQ ID NO: 2 or SEQ ID NO: 4, or an amino acid sequence, in which one or more amino acids in the said amino acid sequence are deleted or replaced by other amino acids, and/or one or more other amino acids are added, and capable of activating transcription factor NF- $\kappa$ B.
2. The protein according to claim 1 which is serine/threonine kinase.
3. The protein according to claims 1 or 3 which has activities for binding with I-TRAF and for phosphorylating I-TRAF.
4. A gene comprising base sequence coding the protein according to claim 1.
5. The gene according to claim 4, wherein the base sequence comprises the base sequence represented by SEQ ID NO: 1 or SEQ ID NO: 3.
6. A pharmaceutical composition comprising the protein according to any one of claims 1 - 3 and a pharmaceutically acceptable carrier.
7. The pharmaceutical composition according to claim 6, which acts on the immune response mechanism.
8. The pharmaceutical composition according to claim 6, which is a preventive or therapeutic agent for diseases involving the I-TRAF or the TRAF molecule.